



Type a plus sign (+) inside this box →

HDP/SB/21 based on PTO/SB/21 (08-00)

## TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Application Number	10/608,086
Filing Date	June 30, 2003
Inventor(s)	William E. RUSSELL, II et al.
Group Art Unit	3641
Examiner Name	Rick Palabrica
Attorney Docket Number	24GA05998-7

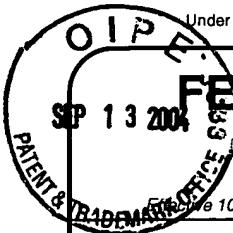
### ENCLOSURES (check all that apply)

<input checked="" type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Assignment Papers (for an Application)	<input type="checkbox"/> After Allowance Communication to Group
<input checked="" type="checkbox"/> Fee Attached	<input type="checkbox"/> Letter to the Official Draftsperson and _____ Sheets of Formal Drawing(s)	<input type="checkbox"/> LETTER SUBMITTING APPEAL BRIEF AND APPEAL BRIEF (w/clean version of pending claims)
<input checked="" type="checkbox"/> Amendment	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Group (Notice of Appeal, Brief, Reply Brief)
<input type="checkbox"/> After Final	<input type="checkbox"/> Petition	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address	<input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):  Letter Reporting Change in Attorney Docket Number
<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Terminal Disclaimer	
<input type="checkbox"/> Information Disclosure Statement	<input type="checkbox"/> Request for Refund	
<input type="checkbox"/> Certified Copy of Priority Document(s)	<input type="checkbox"/> CD, Number of CD(s) _____	
<input type="checkbox"/> Response to Missing Parts/ Incomplete Application		
<input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53		
	Remarks	

### SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name	Harness, Dickey & Pierce, P.L.C.	Attorney Name Gary D. Yacura	Reg. No. 35,416
Signature			
Date	September 13, 2004		

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.



# FEE TRANSMITTAL for FY 2004

Effective 10/01/2003. Patent fees are subject to annual revision.

 Applicant claims small entity status. See 37 CFR 1.27**TOTAL AMOUNT OF PAYMENT** (\$ 950)**Complete if Known**

Application Number	10/608,086
Filing Date	June 30, 2003
First Named Inventor	William E. RUSSELL II et al.
Examiner Name	Rick Palabrica
Art Unit	3641
Attorney Docket No.	24GA05998-7

**METHOD OF PAYMENT (check all that apply)**
 Check    Credit card    Money    Other    None  
Order
 Deposit Account:Deposit  
Account  
Number

08-0750

Deposit  
Account  
Name

Harness, Dickey &amp; Pierce, P.L.C.

**The Director is authorized to: (check all that apply)**

- 
- Charge fee(s) indicated below
- 
- Credit any overpayments
- 
- 
- Charge any additional fee(s) during the pendency of this application
- 
- 
- Charge fee(s) indicated below, except for the filing fee
- 
- to the above-identified deposit account.

**FEE CALCULATION****1. BASIC FILING FEE**Large Entity   Small Entity

Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid
1001	770	2001	385	Utility filing fee	
1002	340	2002	170	Design filing fee	
1003	530	2003	265	Plant filing fee	
1004	770	2004	385	Reissue filing fee	
1005	160	2005	80	Provisional filing fee	

**SUBTOTAL (1)**

(\$ 0)

**2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE**

Total Claims	-20 **	= 0	X	Fee from below	Fee Paid
Independent Claims	-3 **	= 0	X		= 0
Multiple Dependent			X		= 0

Large Entity   Small Entity

Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid
1202	18	2202	9	Claims in excess of 20	
1201	86	2201	43	Independent claims in excess of 3	
1203	290	2203	145	Multiple dependent claim, if not paid	
1204	86	2204	43	** Reissue independent claims over original patent	
1205	18	2205	9	** Reissue claims in excess of 20 and over original patent	

**SUBTOTAL (2)**

(\$ 0)

**3. ADDITIONAL FEES**Large Entity   Small Entity

Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid
1051	130	2051	65	Surcharge - late filing fee or oath	
1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet	
1053	130	1053	130	Non-English specification	
1812	2,520	1812	2,520	For filing a request for reexamination	
1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action	
1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action	
1251	110	2251	55	Extension for reply within first month	
1252	420	2252	210	Extension for reply within second month	
1253	950	2253	475	Extension for reply within third month	
1254	1,480	2254	740	Extension for reply within fourth month	
1255	2,010	2255	1,005	Extension for reply within fifth month	
1401	330	2401	165	Notice of Appeal	
1402	330	2402	165	Filing a brief in support of an appeal	
1403	290	2403	145	Request for oral hearing	
1451	1,510	1451	1,510	Petition to institute a public use proceeding	
1452	110	2452	55	Petition to revive – unavoidable	
1453	1,330	2453	665	Petition to revive – unintentional	
1501	1,330	2501	665	Utility issue fee (or reissue)	
1502	480	2502	240	Design issue fee	
1503	640	2503	320	Plant issue fee	
1460	130	1460	130	Petitions to the Commissioner	
1807	50	1807	50	Processing fee under 37 CFR 1.17 (q)	
1806	180	1806	180	Submission of Information Disclosure Stmt	
8021	40	8021	40	Recording each patent assignment per property (times number of properties)	
1809	770	2809	385	Filing a submission after final rejection (37 CFR § 1.129(a))	
1810	770	2810	385	For each additional invention to be examined (37 CFR § 1.129(b))	
1801	770	2801	385	Request for Continued Examination (RCE)	
1802	900	1802	900	Request for expedited examination of a design application	

Other fee (specify) \_\_\_\_\_

\*Reduced by Basic Filing Fee Paid

**SUBTOTAL (3)** (\$ 950)

\*\*or number previously paid, if greater; For Reissues, see above

<b>SUBMITTED BY</b>		Complete (if applicable)	
Name (Print/Type)	Gary D. Yacura	Registration No. (Attorney/Agent)	35,416
Signature	Date September 13, 2004		

**WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.**

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing this form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



**PATENT**  
Attorney Docket No. 24GA05998-7

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Application No.: 10/608,086  
Filing Date: June 30, 2003  
First Named Applicant: William E. RUSSELL II  
Group Art Unit: 3641  
Examiner: Rick Palabrica  
Title: SYSTEM AND METHOD FOR CONTINUOUS OPTIMIZATION  
OF CONTROL VARIABLES DURING OPERATION OF A  
NUCLEAR REACTOR  
Confirmation No.: 8107

---

U.S. Patent and Trademark Office  
220 20<sup>th</sup> Street S.  
Customer Window  
Crystal Plaza Two, Lobby, Room 1B03  
Arlington, VA 22202

September 13, 2004

**LETTER REPORTING CHANGE IN ATTORNEY DOCKET NUMBER**

Sir:

Applicants kindly request that the Attorney Docket Number in the instant application be changed from "8564-000045/US/DVA" to --24GA05598-7--. Accordingly, Applicants kindly request that all future correspondence from the PTO reflect the revised attorney docket number of 24GA05598-7.

Respectfully submitted,

HARNESS, DICKEY, & PIERCE, P.L.C.

By

Gary D. Yacura, Reg. No. 35,416

P.O. Box 8910  
Reston, Virginia 20195  
(703) 668-8000

GDY:jcp